

PATENT**Application # 10/717,823**

Attorney Docket # 2003P00225US01 (1009-049)

AMENDMENTS**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A method, comprising:

automatically enforcing user compliance with a plurality of predetermined steps of a computer-assisted verification test of a safety feature for a machine system;

providing a user interface adapted for selecting a sequential ordering of a plurality of computer-assisted verification tests to perform, the plurality of computer-assisted verification tests comprising the verification test;

inducing an error condition in the machine system; and

collecting data regarding a response of the machine system to the error condition.

2. (Currently Amended) The method of claim 1, further comprising:

providing a user interface adapted for selecting a stage of development for the machine system.

3. (Original) The method of claim 1, further comprising:

receiving a user selection of a stage of development for the machine system.

4. (Currently Amended) The method of claim 1, further comprising:

providing a user interface adapted for selecting the verification test from a plurality of potential computer-assisted verification tests.

5. (Currently Amended) The method of claim 1, further comprising:

providing a user interface adapted for selecting the verification test from a plurality of potential computer-assisted verification tests, the plurality of potential computer-assisted verification tests limited by a stage of development of the machine system.

PATENT**Application # 10/717,823**

Attorney Docket # 2003P00225US01 (1009-049)

6. (Original) The method of claim 1, further comprising:
receiving a user selection of the verification test from a plurality of potential computer-assisted verification tests.
7. (Cancelled)
8. (Original) The method of claim 1, further comprising:
receiving a user selection of a sequential ordering of a plurality of computer-assisted verification tests to perform, the plurality of computer-assisted verification tests comprising the verification test.
9. (Currently Amended) The method of claim 1, further comprising:
providing a user interface adapted for configuring the verification test.
10. (Currently Amended) The method of claim 1, further comprising:
receiving a user-selected configuration adapted for use in the verification test.
11. (Currently Amended) The method of claim 1, further comprising:
providing instructions adapted for use in the verification test.
12. (Original) The method of claim 1, further comprising:
providing instructional information to a user performing the verification test.
13. (Currently Amended) The method of claim 1, further comprising:
setting-up one or more initial conditions adapted for use in the verification test.
14. (Original) The method of claim 1, further comprising:
prompting a user to perform a step from the plurality of predetermined steps of the verification test.

PATENT**Application # 10/717,823**

Attorney Docket # 2003P00225US01 (1009-049)

15. (Currently Amended) The method of claim 1, further comprising:

resetting removing the induced error condition.

16. (Original) The method of claim 1, further comprising:

resetting a data collector.

17. (Currently Amended) The method of claim 1, further comprising:

placing the-a numerically controlled machine tool in a test mode;

18. (Currently Amended) The method of claim 1, further comprising:

verifying that the verification test succeeded;

19. (Original) The method of claim 1, further comprising:

facilitating human verification that the verification test succeeded.

20. (Original) The method of claim 1, further comprising:

monitoring the verification test.

21. (Original) The method of claim 1, further comprising:

collecting data regarding the plurality of predetermined steps performed during the verification test.

22. (Original) The method of claim 1, further comprising:

collecting data regarding an error condition generated during the verification test.

23. (Original) The method of claim 1, further comprising:

rendering the collected data.

PATENT**Application # 10/717,823****Attorney Docket # 2003P00225US01 (1009-049)**

24. (Original) The method of claim 1, further comprising:
analyzing the collected data.

25. (Original) The method of claim 1, further comprising:
processing the collected data.

26. (Original) The method of claim 1, further comprising:
updating a status of the verification test after correction of a problem.

27. (Original) The method of claim 1, further comprising:
merging verification test information with a standardized template to create a report.

28. (Original) The method of claim 1, further comprising:
generating a report of the verification test.

29. (Original) The method of claim 1, further comprising:
generating a report of the verification test, the report comprising an identity of the
verification test performed.

30. (Original) The method of claim 1, further comprising:
generating a report of the verification test, the report comprising an identity of the
plurality of predetermined steps.

31. (Original) The method of claim 1, further comprising:
generating a report of the verification test, the report comprising a description of the
plurality of predetermined steps.

32. (Original) The method of claim 1, further comprising:
generating a report of the verification test, the report comprising initial conditions.

PATENT**Application # 10/717,823**

Attorney Docket # 2003P00225US01 (1009-049)

33. (Original) The method of claim 1, further comprising:

generating a report of the verification test, the report comprising the error condition induced.

34. (Original) The method of claim 1, further comprising:

generating a report of the verification test, the report comprising the data collected.

35. (Original) The method of claim 1, further comprising:

generating a report of the verification test, the report comprising analysis of the collected data.

36. (Original) The method of claim 1, wherein user compliance is enforced via a graphical user interface.**37. (Original) The method of claim 1, wherein the collected data comprise status data.****38. (Original) The method of claim 1, wherein the collected data comprise alarm data.****39. (Original) The method of claim 1, wherein the collected data comprise a trace.****40. (Original) The method of claim 1, wherein the machine system comprises a machine tool.****41. (Original) The method of claim 1, wherein the machine system comprises a numerical controller.****42. (Currently Amended) A system, comprising:**

a compliance processor adapted to automatically enforce user compliance with a plurality of predetermined steps of a computer-assisted verification test of a safety feature for a machine

PATENT**Application # 10/717,823**

Attorney Docket # 2003P00225US01 (1009-049)

system said compliance processor adapted to provide a user interface, said user interface adapted for selecting a sequential ordering of a plurality of computer-assisted verification tests to perform, the plurality of computer-assisted verification tests comprising the verification test;

an error processor adapted to induce an error condition in the machine system;

a data processor adapted to collect data regarding a response of the machine system to the error condition.

43. (Currently Amended) A machine-readable medium containing instructions for activities comprising:

automatically enforcing user compliance with a plurality of predetermined steps of a computer-assisted verification test of a safety feature for a machine system;

providing a user interface adapted for selecting a sequential ordering of a plurality of computer-assisted verification tests to perform, the plurality of computer-assisted verification tests comprising the verification test;

inducing an error condition in the machine system;

collecting data regarding a response of the machine system to the error condition.